



COMMONWEALTH of VIRGINIA  
DEPARTMENT OF FORENSIC SCIENCE

CENTRAL LABORATORY  
A Nationally Accredited Laboratory

700 NORTH 5TH STREET  
RICHMOND, VIRGINIA 23219  
(804) 786-6971

CERTIFICATE OF INSTRUMENT ACCURACY

INSTRUMENT: Intox EC/IR II  
SERIAL NUMBER: 010659  
CERTIFICATION DATE: August 13, 2014  
DATE RECERTIFICATION DUE: February 9, 2015

The above listed instrument was found to meet all requirements for accuracy and performance established by the Department of Forensic Science as required by §9.1-1101 (B)(3). Measurement traceability is established through the use of reference materials supplied by an ISO/IEC 17025:2005 accredited calibration laboratory.

Estimation of Uncertainty of Measurement:

0.020 ± 0.004 g/210 L      0.150 ± 0.007 g/210 L  
0.080 ± 0.004 g/210 L      0.250 ± 0.007 g/210 L

The Uncertainty of Measurement is reported at the 99.73% level of confidence and a coverage factor of k=3. The estimation of the Uncertainty of Measurement is calculated for the Certification process only.

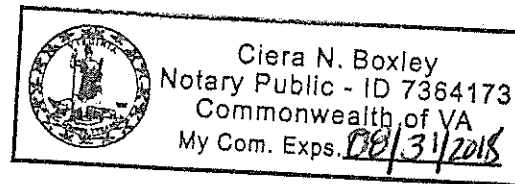
Michelle M. Billeter  
Forensic Scientist

CITY OF RICHMOND  
COMMONWEALTH OF VIRGINIA

The foregoing was acknowledged before me this 14th day of  
August, 2014 by Michelle M. Billeter

Ciera N. Boxley, Notary Public

My commission expires: August 31, 2018



**Department of Forensic Science**  
**Breath Alcohol Section**  
**Instrument Maintenance History**  
**1/1/1990 To 8/13/2014**

MMB  
TLN

**Instrument Serial Number: 010659** **As of 13-Aug-14**

| <b>Maintenance</b> | <b>Certification</b> | <b>Technician</b> |   |
|--------------------|----------------------|-------------------|---|
| <b>Date</b>        | <b>Date</b>          | <b>Initials</b>   | <b>Remarks</b>  |
| 13-Aug-14          | 13-Aug-14            | MMB (26417)       | CERTIFIED.  |
| 28-Apr-14          | 28-Apr-14            | DBH (21250)       | REPLACED DRY GAS SOLENOID VALVE.<br>FIRMWARE/SOFTWARE UPGRADE. CALIBRATED AND<br>CERTIFIED. |
| 30-Nov-12          | 30-Nov-12            | DBH (21250)       | CERTIFIED.  |
| 29-Nov-12          | 29-Nov-12            | DBH (21250)       | REPLACED REGULATOR, CALIBRATED AND CERTIFIED.   |
| 19-Oct-12          | 19-Oct-12            | DBH (21250)       | FIRMWARE/SOFTWARE UPGRADE, CALIBRATED AND<br>CERTIFIED. REPLACED DRY GAS STANDARD.          |
| 02-May-12          | 02-May-12            | SED (24178)       | CERTIFIED.  |
| 09-Jan-12          | 09-Jan-12            | HMS (18910)       | CALIBRATED AND CERTIFIED, REPLACED DRY GAS<br>STANDARD.                                     |
| 09-Nov-11          | 09-Nov-11            | DBH (21250)       | CERTIFIED. REPLACED DRY GAS STANDARD.   |
| 19-May-11          | 19-May-11            | DBH (21250)       | REPLACED DRY GAS STANDARD, CERTIFIED  |
| 08-Dec-10          | 08-Dec-10            | HMS (18910)       | CERTIFIED   |
| 30-Nov-10          | 30-Nov-10            | DBH (21250)       | REPLACED DRY GAS STANDARD, CERTIFIED  |
| 18-Jun-10          | 18-Jun-10            | DBH (21250)       | CERTIFIED   |
| 29-Dec-09          | 29-Dec-09            | DBH (21250)       | REPLACED DRY GAS STANDARD, CERTIFIED  |
| 16-Jul-09          | 16-Jul-09            | DBH (21250)       | CERTIFIED.  |
| 18-Mar-09          | 18-Mar-09            | DBH (21250)       | CERTIFIED.  |
| 12-Mar-09          | 12-Mar-09            | NMJ (22392)       | FIRMWARE/SOFTWARE UPGRADE, CERTIFIED.   |
| 17-Feb-09          | 17-Feb-09            | RJP (22428)       | CALIBRATED, CERTIFIED AND ACCEPTED.   |

mmB  
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# INTOX EC/IR II Quality Assurance Worksheet

Instrument Serial Number 010659 Worksheet Start Date 8/13/2014  
Location Yorktown Naval Weapons Station  
Address Building 702 Belzer Dr Yorktown VA 23691  
DFS Technician Michelle Billeter License No. 26417

☐ Laboratory ☒ On-Site

Site Specification: No detrimental environmental conditions exist. ☒

Instrument Barometer (mm HG) 753 Reference Barometer (mm HG) 754  
Reference Barometer(RB)Serial # 009111 RB Calibration Due 5/19/2015

## Measurement Assurance Check

|                      |           |            |            |          |       |
|----------------------|-----------|------------|------------|----------|-------|
| Standard (sea level) | PA Target | minimum    | maximum    | Sample 1 | 0.296 |
| 0.300                | 0.297     | 0.288      | 0.305      | Sample 2 | 0.295 |
| Precision            |           | sample min | sample max | Sample 3 | 0.295 |
| 0.001                |           | 0.295      | 0.296      |          |       |

|                      |           |            |            |          |       |
|----------------------|-----------|------------|------------|----------|-------|
| Standard (sea level) | PA Target | minimum    | maximum    | Sample 1 | 0.097 |
| 0.100                | 0.099     | 0.096      | 0.102      | Sample 2 | 0.097 |
| Precision            |           | sample min | sample max | Sample 3 | 0.097 |
| 0                    |           | 0.097      | 0.097      |          |       |

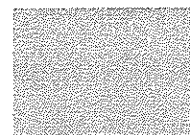
Dry gas standard Lot No. (with tank no.) AG316301-27

☐ Replaced dry gas standard (+O-ring)

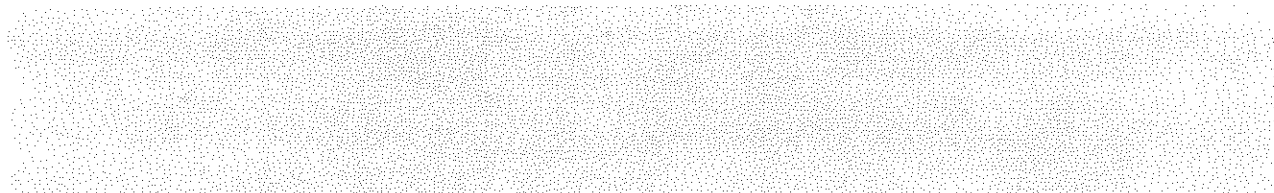
☐ Installed at Location

☐ Removed to DFS-Central

Supplies  
Mouthpieces  
Certificates of Analysis  
Operator Worksheet  
Other:



Notes:



Instrument Serial Number

010659

Certification Date

8/13/2014

☐ Calibrated☒ Certified☒ Measurement Assurance Check☒ Instrument Test☐ Troubleshooting/Maintenance Worksheet Completed

(Successful completion denotes satisfactory condition of the item.)

|                      |           |            |            |          |       |
|----------------------|-----------|------------|------------|----------|-------|
| Standard (sea level) | PA Target | minimum    | maximum    | Sample 1 | 0.246 |
| 0.250                | 0.248     | 0.240      | 0.255      | Sample 2 | 0.245 |
| Precision            |           | sample min | sample max | Sample 3 | 0.244 |
| 0.002                |           | 0.244      | 0.246      |          |       |

|                      |           |            |            |          |       |
|----------------------|-----------|------------|------------|----------|-------|
| Standard (sea level) | PA Target | minimum    | maximum    | Sample 1 | 0.147 |
| 0.150                | 0.149     | 0.144      | 0.153      | Sample 2 | 0.147 |
| Precision            |           | sample min | sample max | Sample 3 | 0.146 |
| 0.001                |           | 0.146      | 0.147      |          |       |

|                      |           |            |            |          |       |
|----------------------|-----------|------------|------------|----------|-------|
| Standard (sea level) | PA Target | minimum    | maximum    | Sample 1 | 0.078 |
| 0.080                | 0.079     | 0.076      | 0.082      | Sample 2 | 0.078 |
| Precision            |           | sample min | sample max | Sample 3 | 0.078 |
| 0                    |           | 0.078      | 0.078      |          |       |

|                      |           |            |            |          |       |
|----------------------|-----------|------------|------------|----------|-------|
| Standard (sea level) | PA Target | minimum    | maximum    | Sample 1 | 0.019 |
| 0.020                | 0.020     | 0.017      | 0.023      | Sample 2 | 0.019 |
| Precision            |           | sample min | sample max | Sample 3 | 0.019 |
| 0                    |           | 0.019      | 0.019      |          |       |

All measurements are in g/210L

Estimation of Uncertainty of Measurement and traceability records are located within the Breath Alcohol Section

DFS Technician

*Michelle Bell*

Date

8/13/14

Issuing Analyst

*Michelle Bell*

Date

8/13/14

TLV

MMB  
TLW

**Intox EC/IR-II: Certification**

*Department of Forensic Science*

Serial Number: 010659      Test Number: 300  
Test Date: 08/13/2014      Test Time: 12:55 EDT

Technician Initials: MMB

Dry Gas Target: 0.248

Lot Number: 1611425014-04      Exp Date: 07/05/2016

Tank Pressure: 811 psi      Barometric Pressure: 753 mmHg

System Check: Passed

| Test | g/210L | Time  |
|------|--------|-------|
| DIAG | Pass   | 12:55 |
| BLK  | 0.000  | 12:56 |
| CHK  | 0.246  | 12:56 |
| BLK  | 0.000  | 12:58 |
| CHK  | 0.245  | 12:59 |
| BLK  | 0.000  | 13:00 |
| CHK  | 0.244  | 13:01 |
| BLK  | 0.000  | 13:02 |

**Success**

Standard Value (at sea level): 0.250 g/210L

Certification Status: Continued

MMB  
TLN

**Intox EC/IR-II: Certification**

*Department of Forensic Science*

Serial Number: 010659      Test Number: 301  
Test Date: 08/13/2014      Test Time: 13:04 EDT

Technician Initials: MMB

Dry Gas Target: 0.149

Lot Number: 07713150I3-03      Exp Date: 05/01/2015

Tank Pressure: 468 psi      Barometric Pressure: 753 mmHg

System Check: Passed

| Test | g/210L | Time  |
|------|--------|-------|
| DIAG | Pass   | 13:05 |
| BLK  | 0.000  | 13:06 |
| CHK  | 0.147  | 13:07 |
| BLK  | 0.000  | 13:08 |
| CHK  | 0.147  | 13:09 |
| BLK  | 0.000  | 13:10 |
| CHK  | 0.146  | 13:11 |
| BLK  | 0.000  | 13:12 |

**Success**

Standard Value (at sea level): 0.150 g/210L

Certification Status: Continued

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TLW

**Intox EC/IR-II: Certification**

*Department of Forensic Science*

Serial Number: 010659      Test Number: 302  
Test Date: 08/13/2014      Test Time: 13:14 EDT

Technician Initials: MMB

Dry Gas Target: 0.079

Lot Number: 0771308012-03      Exp Date: 05/01/2015

Tank Pressure: 551 psi      Barometric Pressure: 753 mmHg

System Check: Passed

| Test | g/210L | Time  |
|------|--------|-------|
| DIAG | Pass   | 13:14 |
| BLK  | 0.000  | 13:15 |
| CHK  | 0.078  | 13:16 |
| BLK  | 0.000  | 13:17 |
| CHK  | 0.078  | 13:18 |
| BLK  | 0.000  | 13:19 |
| CHK  | 0.078  | 13:20 |
| BLK  | 0.000  | 13:21 |

**Success**

Standard Value (at sea level): 0.080 g/210L

Certification Status: Continued

MMB  
+12

**Intox EC/IR-II: Certification**

*Department of Forensic Science*

Serial Number: 010659      Test Number: 303  
Test Date: 08/13/2014      Test Time: 13:23 EDT

Technician Initials: MMB

Dry Gas Target: 0.020

Lot Number: 3441302011-01      Exp Date: 01/01/2016

Tank Pressure: 546 psi      Barometric Pressure: 753 mmHg  
System Check: Passed

| Test | g/210L | Time  |
|------|--------|-------|
| DIAG | Pass   | 13:23 |
| BLK  | 0.000  | 13:24 |
| CHK  | 0.019  | 13:25 |
| BLK  | 0.000  | 13:26 |
| CHK  | 0.019  | 13:26 |
| BLK  | 0.000  | 13:28 |
| CHK  | 0.019  | 13:28 |
| BLK  | 0.000  | 13:30 |

**Success**

Standard Value (at sea level): 0.020 g/210L

Certification Status: Success



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**Intox EC/IR-II: Accuracy Check**

*Department of Forensic Science*

Serial Number: 010659      Test Number: 304

Test Date: 08/13/2014      Test Time: 13:32 EDT

Dry Gas Target: 0.297

Lot Number: AG334603-04      Exp Date: 12/12/2015

Tank Pressure: 164 psi      Barometric Pressure: 753 mmHg

System Check: *Passed*

| Test | g/210L | Time  |
|------|--------|-------|
| BLK  | 0.000  | 13:33 |
| CHK  | 0.296  | 13:34 |
| BLK  | 0.000  | 13:36 |
| CHK  | 0.295  | 13:36 |
| BLK  | 0.000  | 13:38 |
| CHK  | 0.295  | 13:39 |

Test Status: *Success*

Calibration CRC: 9C39691F

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**Intox EC/IR-II: Accuracy Check**

*Department of Forensic Science*

Serial Number: 010659      Test Number: 305

Test Date: 08/13/2014      Test Time: 13:42 EDT

Dry Gas Target: 0.099

Lot Number: AG316301-27      Exp Date: 06/12/2015

Tank Pressure: 178 psi      Barometric Pressure: 752 mmHg

System Check: *Passed*

| Test | g/210L | Time  |
|------|--------|-------|
| BLK  | 0.000  | 13:43 |
| CHK  | 0.097  | 13:44 |
| BLK  | 0.000  | 13:45 |
| CHK  | 0.097  | 13:46 |
| BLK  | 0.000  | 13:47 |
| CHK  | 0.097  | 13:48 |

Test Status: *Success*

Calibration CRC: 9C39691F

mmb  
TLN




COMMONWEALTH OF VIRGINIA  
DEPARTMENT OF FORENSIC SCIENCE

CERTIFICATE OF BLOOD ALCOHOL ANALYSIS  
AS DETERMINED BY A CHEMICAL TEST OF THE ACCUSED'S BREATH

|   |                             |
|---|-----------------------------|
| NAME OF ACCUSED<br><b>INSTRUMENT, TEST,</b> | NAME OF COURT<br><b>DFS</b> |
|---|-----------------------------|

BREATH ANALYSIS

|   |                                      |   |
|---|--------------------------------------|---|
| SAMPLE EXAMINED AND TEST CONDUCTED BY<br><b>BILLETER, MICHELLE, M</b> |                                      | AGENCY<br><b>DFS Central Lab</b>  |
| DFS LICENSE NUMBER<br><b>26417</b>                                    | LICENSE EXPIRES<br><b>10/01/2014</b> | DATE TEST CONDUCTED<br><b>08/13/2014</b>  |
| TEST EQUIPMENT NUMBER<br><b>010659</b>                                |                                      |  |

RESULTS: TIME SAMPLE TAKEN 13:57 EDT

SAMPLE'S ALCOHOL CONTENT 0.00 GRAMS PER 210 LITERS OF BREATH

ATTEST:

I CERTIFY THAT THE ABOVE IS AN ACCURATE RECORD OF THE TEST CONDUCTED; THAT THE TEST WAS CONDUCTED WITH THE TYPE OF EQUIPMENT AND IN ACCORDANCE WITH THE METHODS APPROVED BY THE DEPARTMENT OF FORENSIC SCIENCE; THAT THE TEST WAS CONDUCTED IN ACCORDANCE WITH THE DEPARTMENT'S SPECIFICATIONS; THAT PRIOR TO ADMINISTRATION OF THE TEST THE ACCUSED WAS ADVISED OF HIS RIGHT TO OBSERVE THE PROCESS AND SEE THE BLOOD ALCOHOL READING ON THE EQUIPMENT USED TO PERFORM THE BREATH TEST, AND THAT I POSSESS A VALID LICENSE TO CONDUCT SUCH TEST, GIVEN UNDER MY HAND THIS \_\_\_\_\_ DAY OF \_\_\_\_\_, 20 \_\_\_\_.

|                      |
|----------------------|
| BREATH TEST OPERATOR |
|----------------------|

☐ I HAVE RECEIVED A COPY OF THIS CERTIFICATE OF ANALYSIS \_\_\_\_\_  
SUBJECT'S SIGNATURE

☐ SUBJECT REFUSED TO SIGN FOR COPY OF CERTIFICATE OF ANALYSIS \_\_\_\_\_  
OPERATOR'S SIGNATURE



# IntoxNet MIS Report

Report Generated 13 Aug 2014 at 15:38

mmB  
TLN

## Test Results

Instrument Serial Number 010659

Test # 000306 Subject Test

Test Location 1 Department of

Test Date 13 Aug 2014

Test Location 2 Forensic Science

Test Time 13:51

Remote/Local Local

Test Location 3

System Check Passed

Operator's Last Name BILLETER

Agency DFS Central Lab

Card Serial Number 126417

Subject's Last Name INSTRUMENT

Subject's Middle Initial

Driver's License Number

Driver's License State

Operator's First Name MICHELLE

Effective Date 10/01/2012

Subject's Date of Birth 00/00/0000

Subject's First Name TEST

Operator's Middle Initial M

License Number 26417

Expiration Date 10/01/2014

Subject's Sex Male

Driver's License Expiration 00/00/0000

Court Name DFS

End Date 13 Aug 2014

End Time 13:58

Result Time 13:57

Result Date 13 Aug 2014

Result 0.00

Data Type DIAG

Sample Value Pass

Sample Time 13:51

Data Type BLK

Sample Value 0.000

Sample Time 13:52

Data Type CHK

Sample Value 0.097

Sample Time 13:53

Data Type BLK

Sample Value 0.000

Sample Time 13:54

Data Type SUBJ

Sample Value 0.000

Sample Time 13:55

Data Type BLK

Sample Value 0.000

Sample Time 13:56

Data Type SUBJ

Sample Value 0.000

Sample Time 13:57

Data Type BLK

Sample Value 0.000

Sample Time 13:58

Standard Type Dry Gas Std

Standard Value 0.099

Standard Lot Number AG316301-27

Standard Expiration Date 06/12/2015

Tank Pressure 169

Barometric Pressure 753 mmHg

Blow Sample Number 1

Blow Duration 3.97 sec

Blow Volume 1694 cc

End-of-Blow Time 13:55

Blow Sample Number 2

Blow Duration 3.45 sec

Blow Volume 1546 cc

End-of-Blow Time 13:57

Tamper Evident Stamp bbc73b40

Test Status Code 0

Test Status Success